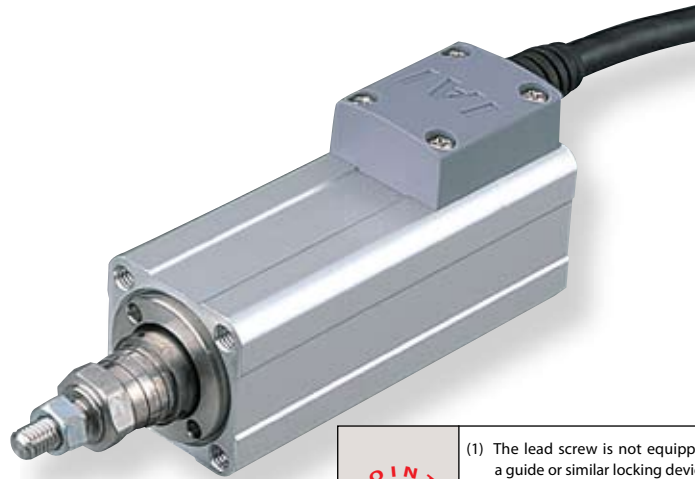


RCA2-RP4N

ROBO Cylinder Mini Rod type Short Length Tapped Hole type Actuator Width 34mm 24V servo motor Ball screw specification/ Lead screw specification

Model Description		RCA2	RP4N	I	20		30			
Series	Type	Encoder type	Motor type	Lead	Stroke	Compatible Controllers	Cable length	Option		
		I: Incremental specification * Model number is "I" when used with simple absolute unit.	20: Servo Motor 20W	6: Ball screw 6mm 4: Ball screw 4mm 2: Ball screw 2mm 6S: Lead screw 6mm 4S: Lead screw 4mm 2S: Lead screw 2mm	30: 30mm	A1: ACON RACON ASEL A3: ASEP	N: None P: 1m S: 3m M: 5m X□□: Length Designation	Following options Refer to price table		

*See page 11 for details on the model descriptions.



POINT
Notes on selection

- (1) The lead screw is not equipped with an anti-rotation device, so please attach a guide or similar locking device to the tip of the lead screw prior to use.* (If there is no anti-rotation device attached, the lead screw cannot extend or retract.)
- (2) Value when operated with payload acceleration of 0.3G
Acceleration limit is value indicated above.
- (3) Do not apply an external force on the rod in any direction other than the direction the rod is moving in.

Actuator Specification Table

Leads and Payloads

Model	Motor output (W)	Feed screw	Lead (mm)	Maximum payload		Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
				Horizontal (kg)	Vertical (kg)			
RCA2-RP4N-I-20-6-30-①-②-③	20	Ball screw	6	2	0.5	33.8	±0.02	30 (Fixed)
RCA2-RP4N-I-20-4-30-①-②-③			4	3	0.75	50.7		
RCA2-RP4N-I-20-2-30-①-②-③			2	6	1.5	101.5		
RCA2-RP4N-I-20-6S-30-①-②-③	20	Lead screw	6	0.25	0.125	19.9	±0.05	30 (Fixed)
RCA2-RP4N-I-20-4S-30-①-②-③			4	0.5	0.25	29.8		
RCA2-RP4N-I-20-2S-30-①-②-③			2	1	0.5	59.7		

Legend ① Compatible Controllers ② Cable length ③ Option

Stroke and Maximum Speed

Lead	Stroke	
	6 (mm)	30 (mm)
Ball screw	6	270 <220>
	4	200
	2	100
Lead screw	6	220
	4	200
	2	100

* < > Indicates Vertical Use (Unit = mm/s)

Price list (by stroke)

Stroke (mm)	Type code	
	RP4N	
	Encoder type	
	Incremental	
	Feed screw	
	Ball screw	Lead screw
30	-	-

(2) Cable length (price chart)

Type	Cable symbol	Standard price
Standard type (Robot cable)	P (1m)	-
	S (3m)	-
	M (5m)	-
Special length	X06 (6m) to X10 (10m)	-
	X11 (11m) to X15 (15m)	-
	X16 (16m) to X20 (20m)	-

* Robot type cable comes as standard with the RCA2 actuator.
* See page 113 for maintenance cables.

(3) Option price list (standard price)

Title	Option code	See page	Standard price
Change the cable connector outlet direction	K2	→P32	-

Actuator Specification

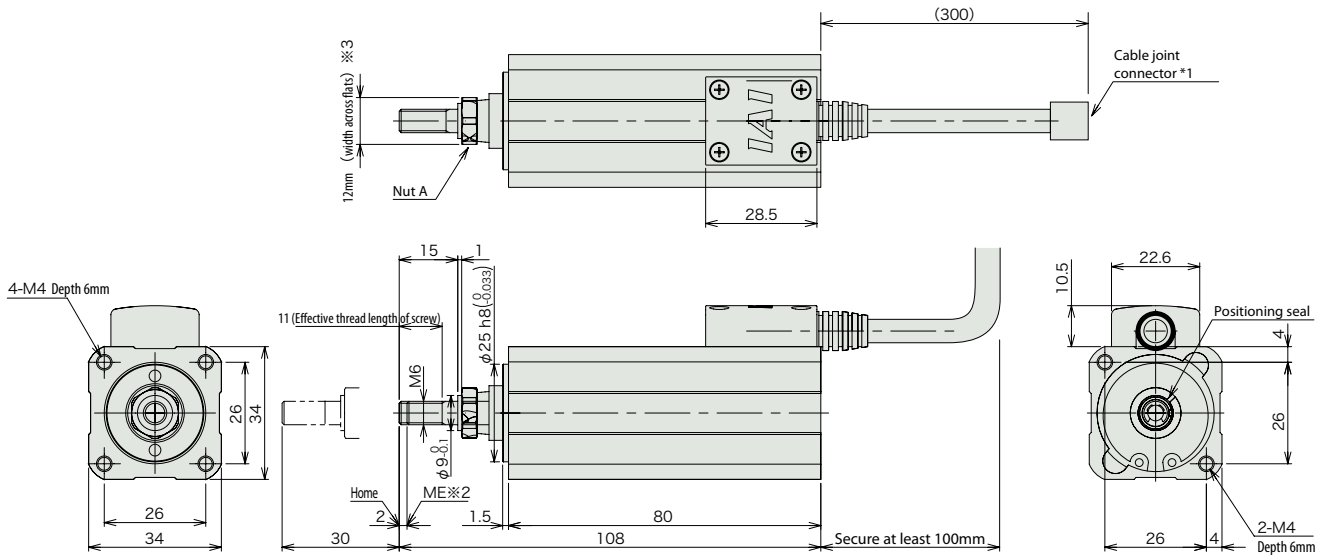
Item	Description	
Drive System	Ball screw/ lead screw dia. 6mm, rolled C10	
Backlash	Ball screw: 0.1mm or less/ Lead screw: 0.3mm or less	
Frame	Material: Aluminum, white alumite treated	
Ambient operating temperature, humidity	0 to 40 °C, 85% RH or less (no condensation)	
Service life	Ball screw	5,000km
	Lead screw	Horizontal specification: 10 million cycles Vertical specification: 5 million cycles

Dimensional Drawings

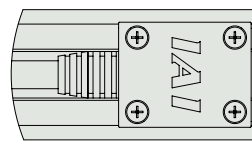
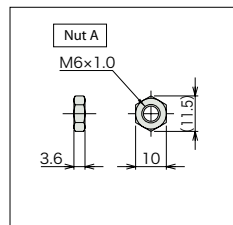
CAD drawings can be downloaded from the website. www.intelligentactuator.com



- *1 Connect the motor and encoder cables. See page 113 for cable details.
- *2 During home return, be careful to avoid interference from peripheral objects because the slider travels until the mechanical end. ROBO Cylinder Table type Rotary nut lead screw specification Rod.
- *3 The orientation of the plane of the width between two faces varies according to the product.



ME : Mechanical end



Changing cable connector outlet direction (Model : K2)
* Rotate 180° relative to standard specification.

■ Dimensions and Weight by Stroke

Stroke	30
Mass (kg)	0.42

Compatible Controllers

RCA2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference Page
Solenoid valve type		ASEP-C-20I-NP-2-0	Simple controller capable of operating with the same signal as the solenoid valve Supports the use of both the single solenoid and the double solenoid types Simple Absolute type makes the return to home unnecessary.	3 points	DC24V	See P109.	-	→P101
		ASEP-CW-20I-NP-2-0					-	
Positioner type		ACON-□-20I-NP-2-0 (Note 1)	Up to 512-points positioning possible By attaching a simple absolute unit (sold separately), the return to home becomes unnecessary.	512 points			-	-
Program type		ASEL-C-1-20I-NP-2-0	Programmable type Capable of operating up to 2 axes Simple Absolute unit cannot be used.	1500 points	-	-		

(Note 1) ACON can be used with C/CG/CY/PL/PO/SE type. Also, ROBOTNET can be used.